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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,088	12/02/2005	Kevin Blann	02814.0079	6753
22852	7590	09/26/2006	EXAMINER	
		FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413	LU, C CAIXIA	
			ART UNIT	PAPER NUMBER
			1713	

DATE MAILED: 09/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/538,088	BLANN ET AL.
	Examiner Caixia Lu	Art Unit 1713

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_.
- 2a) This action is **FINAL**.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-47 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_ is/are allowed.
- 6) Claim(s) 8 and 20 is/are rejected.
- 7) Claim(s) 1-47 is/are objected to.
- 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date: ____
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>6/8/05</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application
	6) <input type="checkbox"/> Other: ____.

## DETAILED ACTION

### ***Claim Objections***

1. Claims 1-47 are objected to because of the following informalities and appropriate correction is required:
  - (i) Extraneous descriptions which do not further limit the scope of the claims should be avoided. For example, in claims 1: (a) lines 7-16, the description of the heteroatomic ligand and (b) lines 33-35, the description of "and provided that ... to A or C" do not provide any additional limitations to the claim and should be deleted. The same objection is also applied to claim 47.
  - (ii) Claim 4, line 2, the term "claims" should be deleted.
  - (iii) Claims 4, 6, and 26 are not further limiting and should be deleted.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
3. Claims 8 and 20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

#### **Claim 8**

Claim 1 requires the substituents on the R<sup>1-4</sup> groups not to be electron-donating groups; however, claim 8, ultimately depended on claim 1, requires the substituent to be electron donating group, such limitation lacks antecedence.

Claim 20

The term "and" is missing before the last term at the end of the claim.

***Allowable Subject Matter***

The subject matter of the instant claims is allowable. Prior art such as Sato et al. (JP 07215896A) teaches a process comprising preparation of an ethylene tetramer and copolymerization the tetramer with ethylene to provide a branched linear low density ethylene polymer. However, Sato does not teach or reasonably suggest the catalyst for the preparation of the tetramer to be the cocatalyst of the instant claims. On the other hand, Wass et al. (WO 02/04119) teaches a process for preparation of a branched ethylene polymer by in situ preparation of an ethylene trimer in the presence of phosphorous bidentate ligand containing catalyst and copolymerization of the trimer with ethylene in the presence of a polymerization catalyst to provide the branched ethylene polymer. While Wass' phosphorous bidentate ligand containing catalyst is similar to those of the instant claims, Wass does not teach or reasonably suggest the phosphorous bidentate ligand containing catalyst for tetramerization. Therefore, the instant claims are deemed to novel and nonobvious over the cited prior art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caixia Lu whose telephone number is (571) 272-1106. The examiner can normally be reached from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful and the matter is urgent, the examiner's supervisor, David Wu, can be reached at (571) 272-1114. The

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fax numbers for the organization where this application or proceeding is assigned is  
(571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1700.



Caixia Lu, Ph. D.  
Primary Examiner